

Office Phone: [+90 286 218 0018](tel:+902862180018) Extension: 21026

Email: hmenginsoy@comu.edu.tr

Web: <https://avesis.comu.edu.tr/hm.enginsoy>

International Researcher IDs

ScholarID: ugwIGDUAAAAJ

ORCID: 0000-0002-8080-3238

Publons / Web Of Science ResearcherID: AAB-3531-2022

ScopusID: 56685911700

Yoksis Researcher ID: 52979

Education Information

- I. Doctorate, Usak University, Institute Of Science, Turkey 2013 - 2017
- II. Postgraduate, Pamukkale University, Institute Of Science, Turkey 2010 - 2012
- III. Undergraduate, Pamukkale University, Faculty Of Engineering, Department Of Mechanical Engineering, Turkey 2006 - 2010

Certificates, Courses and Trainings

- I. Environment and Sustainability, Face Masks & Recycling: Driving Forward for Sustainable Environment, Malaysia One Health University Network (MyOHUN), 2020
- II. Vocational Training, SOLIDCAM 2 Axis Turning Online Training, TEKYAZ-SOLIDCAM Turkey Distributor, 2020
- III. Vocational Training, SOLIDCAM iMachining 2D / 3D Module Online Training, TEKYAZ-SOLIDCAM Turkey Distributor, 2020
- IV. Vocational Training, SOLIDCAM HSS Module Online Training, TEKYAZ-SOLIDCAM Turkey Distributor, 2020
- V. Vocational Training, SOLIDCAM 2,5 - 3 Axis Milling Online Training, TEKYAZ-SOLIDCAM Turkey Distributor, 2020
- VI. Other, Associate-Mechanical Design, CSWA: Certified SOLIDWORKS Associate, Certificate ID: C-E8HFCR2VZ4, Dassault Systèmes, 2020
- VII. Vocational Training, CNC Lathe Programming (FANUC) Development and Compliance Training, Usak Public Education Center - TOBB Industrial Vocational High School, 2020
- VIII. Vocational Training, Computer Aided Manufacturing (CAM) and Lathe Machine Programming Development and Compliance Training , Usak Public Education Center - TOBB Industrial Vocational High School, 2020
- IX. Vocational Training, Master Teaching Certificate (Usta Öğretici Belgesi), Afyonkarahisar Vocational Training Center, 2020

Dissertations

- I. Doctorate, Investigation of the Structural Behaviors under the Eccentric Loading of Adhesively Bonded Composite Materials, Usak University, Institute Of Science, 2017
- II. Postgraduate, Investigation of Mechanical Behaviours of I Profile Butt Jointed Composite Plates, Pamukkale University, Institute Of Science, 2012

Research Areas

Machine Elements, Machine Design, Computer Aided Design and Manufacturing, Material, Plastic Forming Methods, Machining Methods, Transport Technique, Fracture Mechanics, Finite Element Methods, Mechanical Testing, Continuous Mechanics, Ceramic Materials, Testing and Control of Materials, Mechanical Properties, Physical Properties, Electrical and Magnetic Properties, Composites, Intermetallics, Adhesion and Adhesives, Polymeric Materials, Thermal Treatment, Material Characterization, Metallic Materials, Nanomaterials, Thermal Properties, Structure-Property Relationship, Recycling Processes, Powder Metallurgy

Academic Titles / Tasks

- I. Assistant Professor, Canakkale Onsekiz Mart University, Mühendislik Fakültesi, Endüstri Mühendisliği, 2021 - Continues
- II. Research Assistant, Usak University, Faculty Of Engineering, Department Of Mechanical Engineering, 2013 - 2021

Academic and Administrative Experience

- I. Rectorate Commissioner, Canakkale Onsekiz Mart University, 2021 - Continues
- II. Director of Vocational School, Canakkale Onsekiz Mart University, Çanakkale Teknik Bilimler Meslek Yüksek Okulu, 2021 - 2021
- III. Horizontal, Vertical Transfer, Double Major Minor Commission Member, Usak University, Faculty Of Engineering, Department Of Mechanical Engineering, 2017 - 2021
- IV. Academic Advisor, Usak University, Faculty Of Engineering, Department Of Mechanical Engineering, 2013 - 2021
- V. Graduation Commission Member, Usak University, Faculty Of Engineering, Department Of Mechanical Engineering, 2017 - 2020
- VI. IT Commission Member, Usak University, Faculty Of Engineering, Department Of Mechanical Engineering, 2013 - 2019
- VII. Member of the Bologna Commission, Usak University, Faculty Of Engineering, Department Of Mechanical Engineering, 2013 - 2019

Courses

- I. Material Science-1, Undergraduate, 2020 - 2021
- II. Introduction to Finite Element Method, Undergraduate, 2020 - 2021
- III. Manufacturing Techniques, Undergraduate, 2019 - 2020
- IV. Material Science-1, Undergraduate, 2020 - 2021
- V. Manufacturing Techniques, Undergraduate, 2019 - 2020
- VI. Material Science-2, Undergraduate, 2019 - 2020
- VII. Graduate Project, Undergraduate, 2019 - 2020, 2017 - 2018
- VIII. Machine Project, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019
- IX. Material Science-2, Undergraduate, 2019 - 2020
- X. Machine Project, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019
- XI. Graduate Project, Undergraduate, 2019 - 2020
- XII. Machine Elements-2, Undergraduate, 2018 - 2019
- XIII. Machine Tools, Undergraduate, 2018 - 2019
- XIV. Transport Technique, Undergraduate, 2018 - 2019
- XV. Machine Tools, Undergraduate, 2018 - 2019
- XVI. Transport Technique, Undergraduate, 2018 - 2019
- XVII. Computer Aided Design, Undergraduate, 2018 - 2019

- XVIII. Machine Elements-2, Undergraduate, 2018 - 2019
XIX. Computer Aided Design, Undergraduate, 2018 - 2019

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Detailed investigation of TiN effect on hybrid intermetallic composites manufactured by combined sinter plus forging method**
Enginsoy H. M., Bayraktar E., Katundi D., Miskioglu I.
MECHANICS OF ADVANCED MATERIALS AND STRUCTURES, vol.29, no.21, pp.3097-3108, 2022 (SCI-Expanded)
- II. **Comprehensive analysis and manufacture of recycled aluminum based hybrid metal matrix composites through the combined method; sintering and sintering plus forging**
Enginsoy H. M., Bayraktar E., Katundi D., Gatamorta F., Miskioglu I.
COMPOSITES PART B-ENGINEERING, vol.194, 2020 (SCI-Expanded)
- III. **Experimental and numerical study of Al-Nb2Al composites via associated procedure of powder metallurgy and thixoforming**
Enginsoy H. M., Gatamorta F., Bayraktar E., Robert M. H., Miskioglu I.
COMPOSITES PART B-ENGINEERING, vol.162, pp.397-410, 2019 (SCI-Expanded)
- IV. **A Comprehensive Study on the Deformation Behavior of Hadfield Steel Sheets Subjected to the Drop Weight Test: Experimental Study and Finite Element Modeling**
Enginsoy H. M., Bayraktar E., Kursun A.
METALS, vol.8, no.9, 2018 (SCI-Expanded)
- V. **Experimental and numerical study of alumina reinforced aluminum matrix composites: Processing, microstructural aspects and properties**
Kursun A., Bayraktar E., Enginsoy H. M.
COMPOSITES PART B-ENGINEERING, vol.90, pp.302-314, 2016 (SCI-Expanded)
- VI. **Effect of impactor shapes on the low velocity impact damage of sandwich composite plate: Experimental study and modelling**
Kursun A., Senel M., Enginsoy H. M., Bayraktar E.
COMPOSITES PART B-ENGINEERING, vol.86, pp.143-151, 2016 (SCI-Expanded)
- VII. **Experimental and numerical analysis of low velocity impact on a preloaded composite plate**
Kursun A., Senel M., Enginsoy H. M.
ADVANCES IN ENGINEERING SOFTWARE, vol.90, pp.41-52, 2015 (SCI-Expanded)
- VIII. **Fatigue behavior of adhesively bonded glass fiber reinforced plastic composites with different overlap lengths**
Kara E., Kursun A., Haboglu M. R., Enginsoy H. M., Aykul H.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, vol.229, no.7, pp.1292-1299, 2015 (SCI-Expanded)

Articles Published in Other Journals

- I. **Mechanical Behavior of Prestressed Viscoelastic Adhesive Areas under Combining Loadings**
ENGİNSOY H. M., ASİ O.
Anadolu Üniversitesi Bilim ve Teknoloji Dergisi :A-Uygulamalı Bilimler ve Mühendislik, vol.18, no.5, pp.1077-1088, 2017 (Peer-Reviewed Journal)
- II. **Experimental and Numerical Failure Analysis of Jaw Coupling**
ASİ O., ENGİNSOY H. M., YEŞİL Ö.
Usak University Journal of Material Sciences, vol.4, no.2, pp.39-48, 2015 (Peer-Reviewed Journal)

I. **A Comprehensive Study on the Recycled Aluminum Matrix Composites Reinforced with NiAl Intermetallics and TiB₂-TiC Ceramic Powders**

Enginsoy H. M., Aslan Ö., Gatamorta F., Katundi D., Bayraktar E.

in: Recycling of Plastics, Metals, and Their Composites, R.A. Ilyas, S.M. Sapuan, Emin Bayraktar, Editor, CRC, New York, Florida, pp.59-73, 2021

Refereed Congress / Symposium Publications in Proceedings

I. **Tailored Behaviour of Scrap Copper Matrix Composites Reinforced with “Zn-Ni-Al” Low Cost Shape Memory Structures**

Mihlyuzova L., ENGİNSOY H. M., Bayraktar E., Slavov S., Dontchev D.

SEM Annual Conference and Exposition on Experimental and Applied Mechanics, 2021, Virtual, Online, 14 - 17 June 2021, pp.49-53

II. **Mechanical Properties of Recycled Rubber Modified Epoxy Resin Based Composites for Aircraft Auxiliary Structures**

Zambelis G., ENGİNSOY H. M., Bayraktar E., Larbi A., Katundi D.

SEM Annual Conference and Exposition on Experimental and Applied Mechanics, 2021, Virtual, Online, 14 - 17 June 2021, pp.55-63

III. **Static and Dynamic Behaviour of Recycled AA7075 Based Composites Reinforced with ZrO₂-γ-Al₂O₃ Fibre and SiC**

ENGİNSOY H. M., Miskioglu I., Bayraktar E., Katundi D.

SEM Annual Conference and Exposition on Experimental and Applied Mechanics, 2021, Virtual, Online, 14 - 17 June 2021, pp.29-34

IV. **Experimental and Finite Element Study of Recycled Aluminium (AA7075) Matrix Composites Reinforced of TiC/MoS₂/γ-Al₂O₃ Fibre/Nb₂Al**

Mihlyuzova L., ENGİNSOY H. M., Slavov S., Dontchev D., Bayraktar E.

SEM Annual Conference and Exposition on Experimental and Applied Mechanics, 2021, Virtual, Online, 14 - 17 June 2021, pp.41-47

V. **Recycled “Al431 + Al1050” Based Composites Reinforced with “TiC” Ceramic Powders for Aeronautical Applications**

Gatamorta F., ENGİNSOY H. M., Bayraktar E., Miskioglu I.

SEM Annual Conference and Exposition on Experimental and Applied Mechanics, 2021, Virtual, Online, 14 - 17 June 2021, pp.35-40

VI. **Manufacturing of Scrap Thin Sheet “Ni-Ti-Al” Based Composites Reinforced with Nb₂Al Through Hot-Forged Bonding: Sandwich Structures**

ENGİNSOY H. M., Bayraktar E., Katundi D., Larbi A.

SEM Annual Conference and Exposition on Experimental and Applied Mechanics, 2021, Virtual, Online, 14 - 17 June 2021, pp.65-70

VII. **Recycled Niobium-Aluminium (Nb₂Al) Intermetallics Based Composite Design: An Experimental and Numerical Approach for Toughening Mechanism**

ENGİNSOY H. M., Bayraktar E., Gatamorta F., Katundi D., Miskioglu I.

SEM Annual Conference and Exposition on Experimental and Applied Mechanics, 2021, Virtual, Online, 14 - 17 June 2021, pp.71-79

VIII. **New Design of Composites from Fresh Scraps of Niobium for Tribological Applications**

Bayraktar E., Gatamorta F., ENGİNSOY H. M., Polis J., Miskioglu I.

SEM Annual Conference and Exposition on Experimental and Applied Mechanics, 2020, Florida, United States Of America, 14 - 17 September 2020, pp.35-43

- IX. **Design of Copper and Silicon Carbide (SiC) Reinforced Recycled Aluminium Matrix Composites Through Sintering + Forging**
ENGİNSOY H. M., Gatamorta F., Bayraktar E., Miskioglu I., Larbi A.
SEM Annual Conference and Exposition on Experimental and Applied Mechanics, 2020, Florida, United States Of America, 14 - 17 September 2020, pp.45-52
- X. **Design of Recycled Thin Sheet "Ti-Al" Based Composites Reinforced with AA1050, Boron, TiB₂, TiC, and B₄C Through Hot-Forged Bonding**
Bayraktar E., Katundi D., Gatamorta F., Miskioglu I., ENGİNSOY H. M.
SEM Annual Conference and Exposition on Experimental and Applied Mechanics, 2020, Florida, United States Of America, 14 - 17 September 2020, pp.65-71
- XI. **Design of Recycled Alumix-123 Based Composites Reinforced with γ -Al₂O₃ through Combined Method; Sinter + Forging**
Gatamorta F., ENGİNSOY H. M., Bayraktar E., Miskioglu I., Katundi D.
SEM Annual Conference and Exposition on Experimental and Applied Mechanics, 2020, Florida, United States Of America, 14 - 17 September 2020, pp.9-17
- XII. **Tailored Behaviour of Scrap Copper Matrix Composites Reinforced with Zinc and Aluminium: Low Cost Shape Memory Structures**
Mihlyuzova L., ENGİNSOY H. M., Dontchev D., Bayraktar E.
SEM Annual Conference and Exposition on Experimental and Applied Mechanics, 2020, Florida, United States Of America, 14 - 17 September 2020, pp.27-33
- XIII. **Manufacturing of "Ni-Ti" Based Composites from Fresh Scrap Thin Sheets Reinforced with Nb and TiB₂ Through Hot-Forged Bonding: Sandwich Structures**
ENGİNSOY H. M., Bayraktar E., Miskioglu I., Katundi D.
SEM Annual Conference and Exposition on Experimental and Applied Mechanics, 2020, Florida, United States Of America, 14 - 17 September 2020, pp.53-59
- XIV. **Analysis of Interactions of Recycled A356 Based Hybrid Metal Composites with Different Reinforcement Powders**
ENGİNSOY H. M.
Ankara International Congress on Scientific Research-III, 2 - 04 October 2020, pp.247-255
- XV. **Investigation of Mechanical Behavior of Boron Reinforced Aluminum Matrix Hybrid Metal Composites**
ENGİNSOY H. M.
4th International Scientific Studies Congress (UBCAK), 28 - 30 September 2020, pp.307-3015
- XVI. **Experimental Analysis of Mechanical Behavior of Nb₂Al Reinforced Aluminum Matrix Hybrid Metal Composites**
ENGİNSOY H. M.
Karadeniz Summit, 4th International Applied Sciences Congress (UBAK), 13 September 2020, pp.28-37
- XVII. **AL₂O₃ TiO₂ 97 3 KAPLAMA KALINLIĞININ KAPLAMANIN FİZİKSEL ÖZELLİKLERİNE ETKİSİNİN İNCELENMESİ**
ASİ O., YEŞİL Ö., ENGİNSOY H. M.
Uluslararası Malzeme Bilimi ve Teknolojisi Konferansı, IMSTEC 2016, Nevşehir, Turkey, 6 - 08 April 2016
- XVIII. **Cam Elyaf Takviyeli Kompozit Malzemelerin Mekanik Ve Aşınma Davranışına Dokuma Kumaş Geometrisinin Etkisinin İncelenmesi**
ASİ O., YEŞİL Ö., ENGİNSOY H. M.
Uluslararası Katılımlı III. Ege Kompozit Malzemeler Sempozyumu, Turkey, 5 - 07 November 2015
- XIX. **The Effect of Coating Thickness on the Microstructure and Electrical Properties of Flame Sprayed Cr₂O₃ Coatings**
ASİ O., YEŞİL Ö., ENGİNSOY H. M.
International Porous and Powder Materials Symposium and Exhibition "PPM 2015", 15 - 18 September 2015

Supported Projects

- I. Enginsoy H. M., Bayraktar E., Other International Funding Programs, Development of New Generation Metal Matrix Composite Materials for Aeronautical Industry and Investigation of Advanced Manufacturing Processes, 2019 - 2019
- II. Asi O., TUBITAK Project, Production of High Performance Hybrid Composite Profiles by Pultrusion Method, 2015 - 2019
- III. Enginsoy H. M., Asi O., Project Supported by Higher Education Institutions, Investigation of the Structural Behaviors under the Eccentric Loading of Adhesively Bonded Composite Materials, 2015 - 2017
- IV. Altan G., TUBITAK Project, Static and Dynamic Investigation of Mechanical Behavior of Mechanical Butt Jointed Composite Plates, 2010 - 2013

Activities in Scientific Journals

- I. American Journal of Aerospace Engineering, Committee Member, 2019 - Continues
- II. International Journal of Materials Science and Applications , Committee Member, 2019 - Continues
- III. Composite Materials, Committee Member, 2018 - Continues

Memberships / Tasks in Scientific Organizations

- I. SEM-Society for Experimental Mechanics, Member, 2020 - 2021, United States Of America

Scientific Refereeing

- I. Erciyes Üniversitesi Fen Bilimleri Enstitüsü Fen Bilimleri Dergisi, Other Indexed Journal, September 2020
- II. Engineering Reports, Other Indexed Journal, January 2020
- III. International Journal of Engineering Technologies, Other Indexed Journal, January 2020
- IV. Usak University Journal of Engineering Sciences, Other Indexed Journal, October 2019
- V. Metals And Materials International, SCI Journal, September 2019
- VI. Research on Engineering Structures and Materials, Other Indexed Journal, August 2019
- VII. Anadolu Üniversitesi Bilim Ve Teknoloji Dergisi A - Uygulamalı Bilimler ve Mühendislik, Other Indexed Journal, July 2019
- VIII. International Journal of Metallurgy and Metal Physics, Other Indexed Journal, June 2019
- IX. Nevşehir Bilim ve Teknoloji Dergisi, Other Indexed Journal, February 2019
- X. American Journal of Mechanical and Materials Engineering, Other Indexed Journal, December 2018
- XI. Mathematical Problems in Engineering, Other Indexed Journal, May 2018

Metrics

Publication: 30
Citation (WoS): 116
Citation (Scopus): 167
H-Index (WoS): 5
H-Index (Scopus): 6

Scholarships

- I. Production of High-Performance Hybrid Composite Profiles by Pultrusion Method, TUBITAK Project Number: 5150016, Scholarship, TUBITAK, 2015 - 2017
- II. Static and Dynamic Investigation of Mechanical Behavior of Mechanical Butt Jointed Composite Plates, TUBITAK Project Number: 110M250, TUBITAK, 2010 - 2013

Awards

- I. Enginsoy H. M., Honorary Quarterly Rosalind Member of London Journals Press, (ID#PI12447), PhD Thesis Research Paper, London Journals Press, June 2020
- II. Enginsoy H. M., First Class Honor, Undergraduate: Pamukkale University, Faculty of Engineering, Department of Mechanical Engineering, Pamukkale Üniversitesi, June 2010